Chapter 1: Introduction

The new Genius **TVGo A31** is an excellent combination of PC and TV system, without the need of a screw driver or any software driver installation. Just plug the cables and power adapter in, and you get HDTV quality TV reception and you can watch Analog TV on your TFT LCD / CRT monitor or projector. It supports higher resolution from 800 x 600 up to WSXGA 1680 x 1050 pixels.

The **TVGo A31** also supports the PIP (picture in picture) re-sizing feature, and you can work on your PC and still watch your favorite TV or video programs.

You can also connect the **TVGo A31** to a DVD player, VCD player, camcorder or video game, so you can experience more visual and audio entertainment.

1.1 Package Contents

Make sure the following parts are included when you open the package. If not, contact your distributor or dealer.

◆ TVGo A31 TV Box	◆ AC adapter	◆ YPbPr cable	◆ User's Manual
◆ IR remote controller	◆ VGA-In loop back cable (for PIP mode use)	◆ Audio cable for connecting to PC sound system	

1.2 System Requirements

- Display unit CRT / LCD with Standard VGA connector (D-Sub 15 pin). A PC system is necessary when PIP mode is required.
- RF antenna signal or CATV signal.
- Independent of OS (operating system), no software driver installation or HDD space is needed.

1.3 Main Features

Resolution up to WSXGA: 1680 x 1050 resolution. The most optimized VIDEO display setting is 1024 x 768 with the vertical refresh rate at 75Hz gives the best performance In a generic 15 inch LCD monitor, while in 20 inch LCD wide monitor you can set it to 1680x1050。

PiP Function supports sub-Video display in PC: In addition to full screen display, the PIP feature allows you to watch TV while working on your PC, the PIP sub video window is moveable to any place on the VGA monitor.

MTS Stereo: HDTV WS supports SAP and Stereo audio, according to the broadcasting program, you can choose a second language for receiving stereo audio.

16 Channels TV wall for program preview: the TV program can be previewed in 4, 9 or 16 display windows, and can be easy manipulated using the function key or remote control。

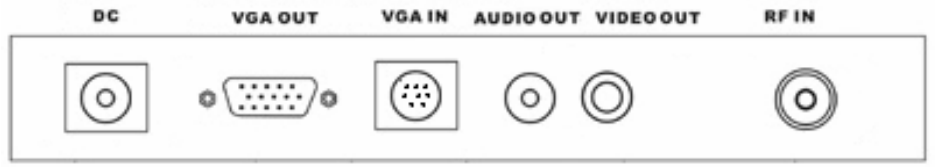
Sharper and stunning picture: Adaptive 3D noise reduction filter, enhanced motion adaptive 3D de-interlacing and adaptive Luma/Chroma enhanced engine.

Multiple input /output source: The support connector includes (RCA) input and output, S-VHS input, 3.5 mm stereo audio input and output, convent to VCR or DVD connection。

Chapter 2: Getting started

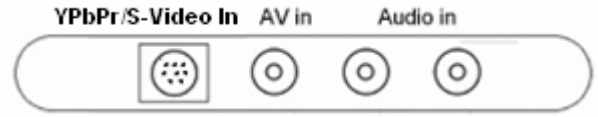
2.1 Rear panel connectors

The most typical connection is shown below; follow it to make a correct connection, and make sure all systems are in power off situation.



CONNECTOR	TYPE	DESCRIPTION
DC In	5mm, INT+, EXT-	AC adapter, power in (5V, 2 A)。
VGA Out	15 pin D-Sub connector	Main video output. Connect to CRT/LCD Monitor。
VGA In	8 pin Mini DIN connector	VGA-In loop back cable: The other end of this cable connects to PC system VGA D-sub 15 pin connector.
Audio Out	3.5mm stereo connector	Audio out: Connect to PC sound system (Line-in of sound card) the built-in speaker will be automatically disabled when this connector is plugged in。
Video Out	RCA Jack	Video output. Can be used to connect to Video input of display unit.
RF IN	TV antenna connector	TV or CATV signal in connector。

2.2 Right Side panel connectors



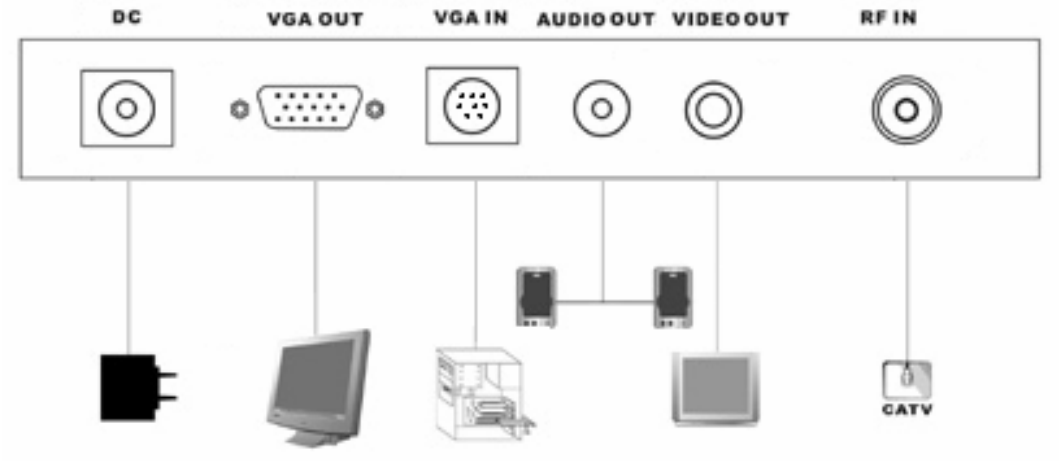
CONNECTOR	TYPE	DESCRIPTION
YPbPr / S-Video In	7 pin Min Din connector	YPbPr / S-VHS type external video input source. can be connected to DVD,VCR or Camcorder。
Video In	RCA JACK	External composite video input source, can be connected to DVD,VCR or Camcorder。
Audio In	RCA audio jack	RCA audio jack used for external audio input source.

2.3 Wire connection

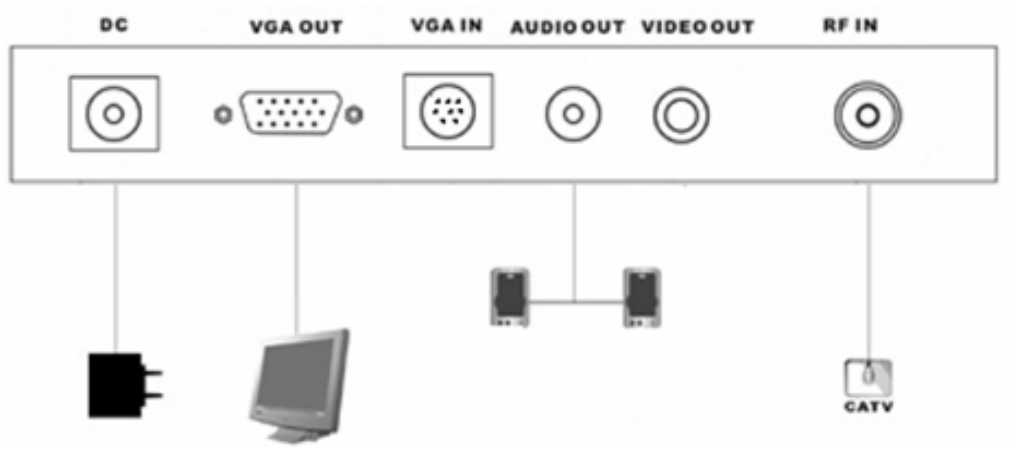
There is no sequential requirement which cable should be connected first except the AC adapter, it is strongly recommended to connect the AC adapter last when you finish all the connections.

*For Macintosh user, the connectors or cable requirement may be different, this package doesn't contain such accessories, and you need to get it from a Macintosh shop if necessary.

2.3.1 Wire connection for using PIP functions:

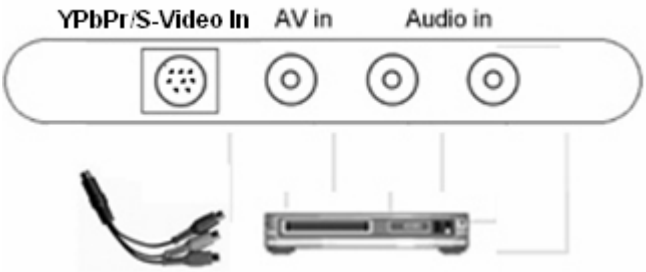


2.3.2 Wire connection for watching TV on Monitor without PC:



2.3.3 External Video/Audio input connection:

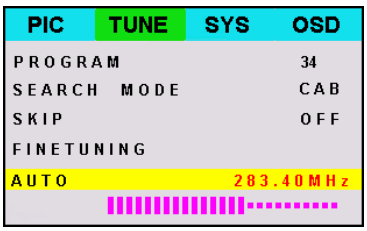
When connect HDTV WS with external video / audio device such as DVD, VCR or Camcorder to enjoy high quality visual / sound entertainment, turn off the system power and make correct connection as shown below.



Chapter 3: Use the Box!

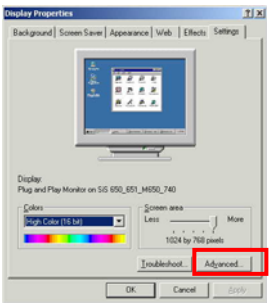
3.1 Four steps to watch TV program on LCD/CRT or projector
Take the remote control and follow these steps to start watching TV.

1. **Press power key** **to power on the device**
2. **Press SYS key to choose TV system. Our default setting is PAL BG/DK.**
3. **Press Exit key to return to main menu and use VOL+/VOL- key to select "TUNE" menu, choose Auto scan and press Menu key to start scan.**



3.2 PC side VGA resolution setting

It can be used independent of PC system for a full screen display. In addition to the full screen display, when it is connected to a PC, the PIP sub video window can also be displayed on the top of the PC system VGA surface. This gives you the option of watching TV while you work on the PC or just enjoy the full screen program.
While in PIP mode, in order to have the optimized performance, it is recommended to set PC system VGA in XGA mode (1024 x 768) and the monitor's refresh rate at 75Hz. See below for the VGA setting.



1. In Windows system, the VGA resolution setting page can be invoked by a right click on the mouse when it is pointed at an empty area.
2. When the "display properties" page is shown, select "Settings" for the desired resolution. The recommended value is 1024 x 768.
3. Click on the "Advanced" button, to select the monitor refresh rate, the recommended value is 75Hz
4. Click on OK to close the property page.
5. Windows system will change the display mode to your setting and ask whether to use this display mode or not, click "ok" to confirm the setting.
6. In Windows ME 95/98, the system will reboot to let the new setting take effect.

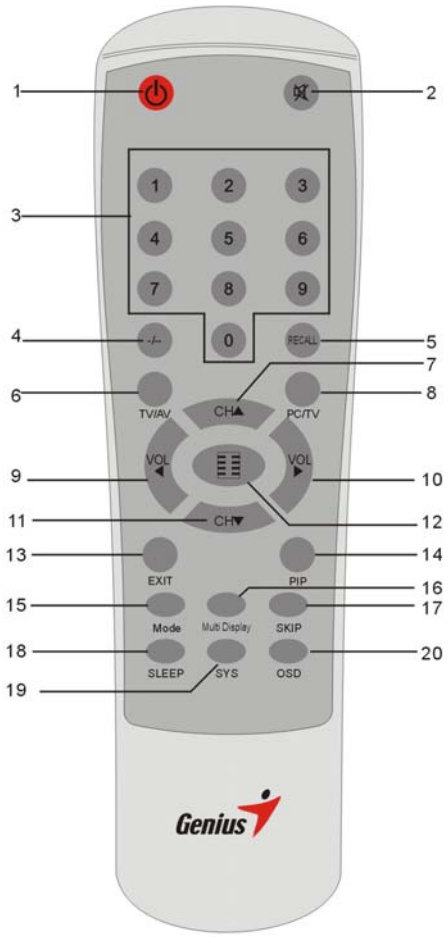
Chapter 4: Using the Remote Control

The remote control allows you to operate this box, such as turning your TV on / off, viewing the TV, and changing the channels and volume. Aim the front of the Remote Control at the Remote Control Receiver and press the control buttons as you would on the infrared ray receiver.

4.1 Installing Batteries

Open the back cover of remote controller and put in two AAA batteries (alkaline battery recommended).

4.2 Remote controller functions



1. Power: power on/off control.

2. MUTE: Volume mute or resume.

3. Numbers: Program number select

4. -/ --: Single or Double digits channel

5. RECALL: Recall last program you watched.

6. TV/AV: Source select.

7. CH+: Channel Up.

8. PC/TV: Switch to select PIPPC mode or full screen TV mode.

9. VOL-: Volume Down.

11. CH-: Channel Down.

10. VOL+: Volume Up.

12. MENU: When in [full screen TV mode], pop out the MENU for further setting. When in [PIP PC mode], use to allocate PIP position in conjunction with CH+/-, Vol +/- key.

13. EXIT: Exit form current Menu setting.

14. PIP: Enter into PIP mode.

15. MODE: When in PIP Mode (connect to PC)]: Mode changes the PIP display (TV screen) size. When in Full screen TV mode (without connect to PC)]: Mode changes the HDTV WS resolution setting to the next level. 800 x 600 to 1024 x 768 (15”~17” Monitor), 1280 x 1024 (19”~21” Monitor), 1680 x 1050 (22” or above).

16. MULTI-DISPLAY: Multi-picture display. Up to 16 video windows.

17. SKIP: Skip/no skip current TV channel.

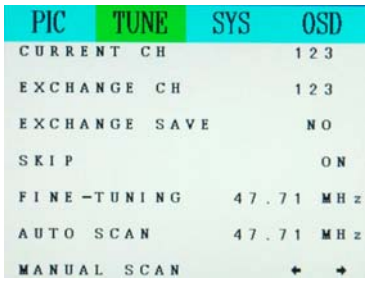
18. SLEEP: Set sleep time.

19. SYS: TV system format setting.

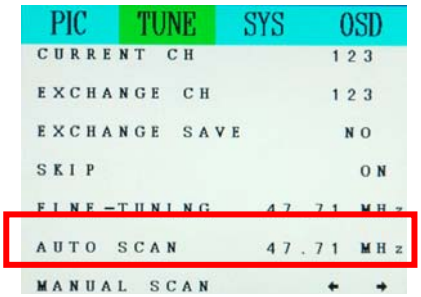
20. OSD: On Screen Display.

4.3 How to use MENU

OSD display Menu

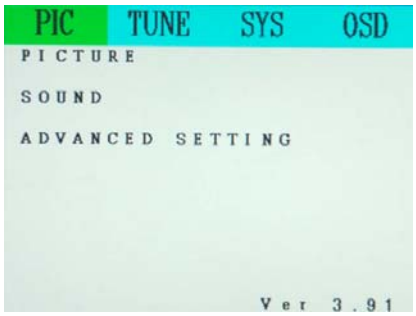


The MENU configuration is shown above. Use the **CH+/CH-** key to move the cursor to the desired item, once you reach it, click on the **MENU** key to select it. If there is a sub Menu for the selected item, you can set the Value setting; use the **VOL+/VOL-** key to set the proper value.



Either press the **EXIT** key on the remote controller to return to previous menu setting page or exit from menu setting. If there is no further operation, the OSD MENU display will disappear within 8-10 secs.

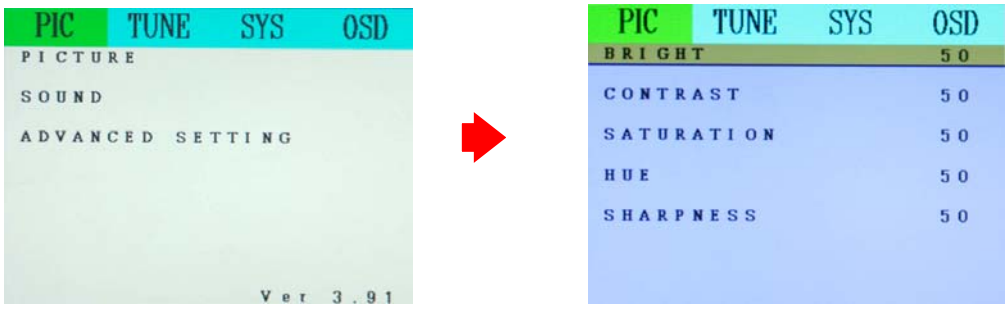
4.4 OSD display MENU Setting



MENU	ITEMS	Display MENU setting
PIC	PICTURE	Video picture adjustment
TUNE	SOUND	TV program setting
SYS	SETTING	TV system format setting
OSD		On screen display。

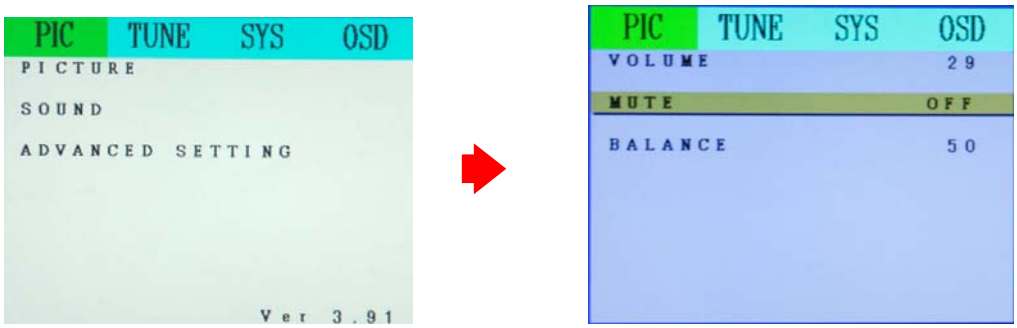
4.4.1 Video Picture Setting

4.4.1.1 Picture Setting



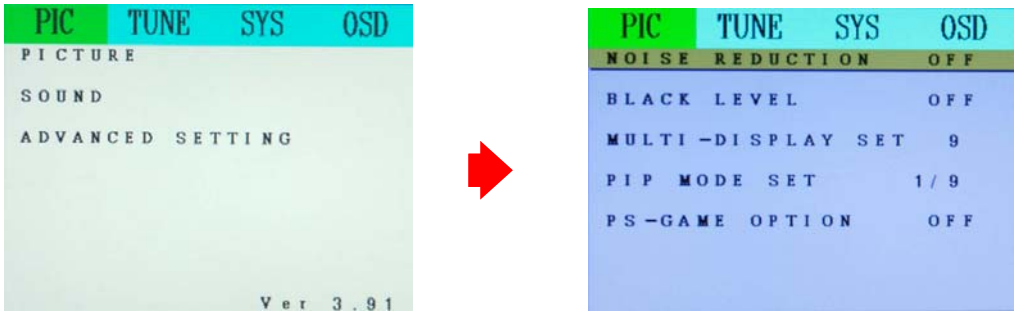
ITEMS	OPERATION	CONTENTS
BRIGHT	**MENU→VOL+/VOL-**	Picture Brightness Adjustment
CONTRAST	**MENU→VOL+/VOL-**	Picture Contrast Adjustment
SATURATION	**MENU→VOL+/VOL-**	Picture Saturation Adjustment
HUE	**MENU→VOL+/VOL-**	Picture Hue Adjustment
SHARPNESS	**MENU→VOL+/VOL-**	Picture Sharpness Adjustment

4.4.1.2 Sound Setting



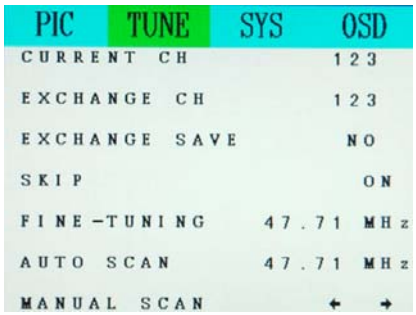
ITEMS	OPERATION	CONTENTS
VOLUME	**MENU→VOL+/VOL-**	Volume control
MUTE	**MENU→VOL+/VOL-**	Volume mute or resume
BALANCE	**MENU→VOL+/VOL-**	Sound balance adjustment

4.4.1.3 Advanced Setting



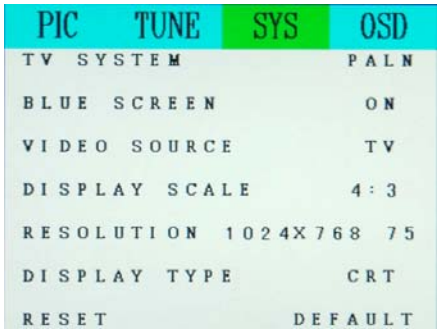
ITEMS	OPERATION	CONTENTS
NOISE REDUCTION	**MENU→VOL+/VOL-**	Noise reduction control
BLACE LEVEL	**MENU→VOL+/VOL-**	Enhance video signal.
MULTI-DISPLAY SET	**MENU→VOL+/VOL-**	4, 9,16 Multi-channel display
PIP MODE	**MENU→VOL+/VOL-**	Change PIP display size.
PS – GAME OPTION	**MENU→VOL+/VOL-**	PS2 video enhance, ON/OFF

4.4.2 TV Program Setting



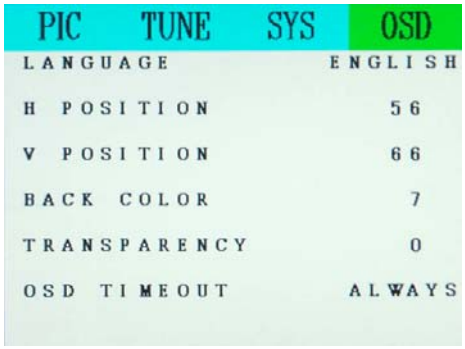
ITEMS	OPERATION	CONTENTS
CURRENT CH	**VOL+/VOL→MENU**	Display current channel
EXCHANGE CH	**VOL+/VOL→MENU**	Change current channel sequence list
EXCHANGE SAVE	**MENU→VOL+/VOL-**	Save adjusted channel sequence list
SKIP	**MENU→VOL+/VOL-**	To skip the undesired channels
FINE - TUNING	**MENU→VOL+/VOL-**	Channel Frequency fine tune
AUTO SCAN	**VOL+/VOL-**	Auto TV channel scanning
MANUAL SCAN	**MENU→VOL+/VOL-**	TV channel scanning manually

4.4.3 TV System Format Setting



ITEMS	OPERATION	CONTENTS
TV SYSTEM	**MENU→VOL+/VOL-**	PAL TV system standard select
BLUE SCREEN	**MENU→VOL+/VOL**	Background color setting
VIDEO SOURCE	**MENU→VOL+/VOL**	Input video source select, TV/AV/SV
DISPLAY SCALE	**MENU→VOL+/VOL**	Video output mode select 16:9, 16:10, 4:3
RESOLUTION	**MENU→VOL+/VOL-**	Output image resolution select
DISPLAY TYPE	**MENU→VOL+/VOL-**	CRT/LCD output select
RESET	**MENU→VOL+/VOL-**	Reset to factory default setting

4.4.4 On Screen Setting



ITEMS	OPERATION	CONTENTS
LANGUAGE	**MENU→CH+/CH-**	English or Chinese select
H POSITION	**MENU→CH+/CH-**	Adjust horizontal position
V POSITION	**MENU→CH+/CH-**	Adjust vertical position
BACK COLOR	**MENU→CH+/CH-**	Window background color setting
TRANSPARENCY	**MENU→CH+/CH-**	Setting window transparency setting
OSD TIMEOUT	**MENU→CH+/CH-**	OSD display time setting